

**Amendments to the CLAIMS:**

Without prejudice, this listing of the claims replaces all prior versions and listings of the claims in the present application:

**LISTING OF THE CLAIMS:**

1 to 10. (Canceled).

11. (Currently Amended) A window-integrated antenna for a vehicle, comprising:

    a heating conductor field, which is provided for FM reception and LMS reception;  
and

    at least one decoupling element for the FM reception which has a high-frequency, low-resistance, and non-galvanic connection to the heating conductor field;

wherein at least one of a length and a position of the decoupling element is arranged so that a resonant impedance behavior occurs in the FM frequency range at a connection end of the decoupling element.

12. (Previously Presented) The window-integrated antenna of claim 11, wherein the decoupling element for the FM reception includes at least one conductor situated essentially parallel to at least one boundary of the heating conductor field which is not formed by a busbar for the heating conductor field.

13. (Canceled).

14. (Previously Presented) The window-integrated antenna of claim 11, wherein antenna conductors are situated in the heating conductor field essentially perpendicularly to heating conductors of the heating conductor field and are galvanically linked to the heating conductors.

15. (Previously Presented) The window-integrated antenna of claim 14, wherein at least one of a length and a position of the antenna conductors is arranged so that a resonance behavior of the window-integrated antenna occurs at a connection end of the decoupling element in the FM range.

16. (Canceled).

17. (Canceled).

18. (Previously Presented) The window-integrated antenna of claim 11, wherein the at least one decoupling element for the FM reception and further decoupling elements for other frequency ranges are connected to a diversity switching device.

19. (Previously Presented) The window-integrated antenna of claim 11, wherein a plurality of decoupling elements including the decoupling element for the LMS reception are connected to a shared module carrier.

20. (Previously Presented) The window-integrated antenna of claim 11, wherein a filter element is provided in a heating current circuit.

21. (New) The window-integrated antenna of claim 11, wherein:

the decoupling element for the FM reception includes at least one conductor situated essentially parallel to at least one boundary of the heating conductor field which is not formed by a busbar for the heating conductor field, and

at least one of a length and a position of the decoupling element is arranged so that a resonant impedance behavior occurs in the FM frequency range at a connection end of the decoupling element.

22. (New) The window-integrated antenna of claim 21, wherein antenna conductors are situated in the heating conductor field essentially perpendicularly to heating conductors of the heating conductor field and are galvanically linked to the heating conductors.

23. (New) The window-integrated antenna of claim 22, wherein at least one of a length and a position of the antenna conductors is arranged so that a resonance behavior of the window-integrated antenna occurs at a connection end of the decoupling element in the FM range.

24. (New) The window-integrated antenna of claim 21, wherein the at least one decoupling element for the FM reception and further decoupling elements for other frequency ranges are connected to a diversity switching device.

25. (New) The window-integrated antenna of claim 21, wherein a plurality of decoupling elements including the decoupling element for the LMS reception are connected to a shared module carrier.

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26. (New) The window-integrated antenna of claim 21, wherein a filter element is provided in a heating current circuit.